

CLAIMS

What is claimed is:

1. A purified, isolated and cloned DNA sequence partially encoding a functional portion of a polypeptide component required for the synthesis of antibiotic TA.

2. The DNA sequence according to claim 1, wherein said sequence is isolated from *Myxococcus xanthus*.

3. A purified, isolated and cloned DNA sequence consisting of a DNA sequence encoding a polypeptide component required for postmodification of antibiotic TA.

4. The DNA sequence according to claim 3, wherein said sequence is isolated from *Myxococcus xanthus*.

5. A purified, isolated and cloned DNA sequence consisting of a DNA sequence encoding a gene product involved in the regulation of the biosynthesis of antibiotic TA.

6. The DNA sequence according to claim 5, wherein said sequence is isolated from *Myxococcus xanthus*.

7. A purified, isolated and cloned DNA sequence consisting of a DNA sequence (Seq. ID No:1 and 2) encoding a polypeptide component required for encoding the TA gene cluster.

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11. A host cell, wherein the host cell is selected from the group of suitable eukaryotic and procaryotic cells, which is transformed with the vector according to step 10.

13. A recombinant expression vector comprising a DNA sequence according to claim 7.

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16. A method of using the TA genes encoding for the synthesis, modification or regulation of antibiotic TA.